10/532324 JC10 Rec'd PCT/PTO 22 APR 2005

Practitioner's Docket No. <u>U 015741-7</u>

Optional Customer No. Bar Code * 0 0 1 4 0 *

00140

PATENT TRADEMARK OFFICE

CHAPTER II

31 -

TRANSMITTAL LETTER TO THE UNITED STATES ELECTED OFFICE (EO/US) (ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED 23 OCTOBER 2002

TITLE OF INVENTION
A BEAM
APPLICANT(S)
CHARLWOOD, Grant

Mail Stop PCT Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

ATTENTION: DO/US

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PATENT TRADEMARK OFFICE

E: To avoid abandonment of the application, the applicant shall furnish to the USPTO, not later than the expiration of 30 months from the priority date: (1) a copy of the international application, unless it has been previously communicated by the International Bureau or unless it was originally filed in the USPTO; and (2) the basic national fee (see 37 C.F.R. § 1.492(a)). The 30-month time limit may not be extended. 37 C.F.R. § 1.495(a) and (b).

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>April 22, 2005</u>, in an envelope as "Express Mail Post Office to Addressee," Mailing Label Number <u>EV 480459425 US</u>, addressed to the: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Transmittal Letter to the United States Elected Office (EO/US)—page 1 of 9) 13-18

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WARNING:

Where the items are those which can be submitted to complete the entry of the international application into the national phase are subsequent to 30 months from the priority date the application is still considered to be in the international state and if mailing procedures are utilized to obtain a date the express mail procedure of 37 C.F.R. §1.10 must be used (since international application papers are not covered by an ordinary certificate of mailing - See 37 C.F.R. §1.8.

NOTE: Documents and fees must be clearly identified as a submission to enter the national state under 35 USC 371 otherwise the submission will be considered as being made under 35 USC 111. 37 C.F.R. § 1.494(f).

- 1. Applicant herewith submits to the United States Elected Office (EO/US) the following items under 35 U.S.C. 371:
 - a. [X] This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
 - b. [X] The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees (37 C.F.R. § 1.492) as indicated below:
 - c. [] ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

2. Fees

CLAIMS FEE *	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS	
. 52	TOTAL CLAIMS*	24- 20 =	4	x \$ 50.00 =	\$ 200.00	
	INDEPENDENT CLAIMS*	4-3=	1	x \$ 200.00 =	\$ 200.00	
	MULTIPLE DEPENDE					
FILING FEES**				5400.00) 5500.00) 5200.00)	\$300.00	
			Total of	above Calculation	s = \$ 700.00	
SMALL	Reduction by ½ for fi filed. (note 37 CFR 1	- 350.00				
ENTITY	med. (note 57 Cr R 1	1 \$350.00				
				Total National Fe	e \$	
	Fee for recording the (See Item 13 below).					
TOTAL	(550 115111 12 55.54).	d \$ 350.00				

^{*}May include Preliminary Amendment (see page 8) reducing the number of claims.

ii Ì		[X] [] A dupli	" 10 0405 in the emount of \$			
**WARNING:		"To avoid abandonment of the application the applicant shall furnish to the United States Patent Trademark Office not later than the expiration of 30 months from the priority date: * * * (2) the b national fee (see § 1.492(a)). The 30-month time limit may not be extended." 37 C.F.R. § 1.495(b)		ot later than the expiration of 30 months from the priority dute. (2) the basic		
WARNING:		submitted met with forth in g months of acceptar	If the translation of the international application and/or the oath or declaration have not been submitted by the applicant within thirty (30) months from the priority date, such requirements may be met within a time period set by the Office. 37 C.F.R. § 1.495(b)(2). The payment of the surcharge set forth in § 1.492(e) is required as a condition for accepting the oath or declaration later than thirty (30) months after the priority date. The payment of the processing fee set forth in § 1.492(f) is required for acceptance of an English translation later than thirty (30) months after the priority date. Failure to comply with these requirements will result in abandonment of the application. The provisions of § 1.136 apply to the period which is set. Notice of Jan. 3, 1993, 1147 O.G. 29 to 40.			
	[X]	Assert	ion of Sn	nall Entity Status		
	[X]	Applic [X]	ant herel a Stater fee pay	by asserts status as a small entity under 37 C.F.R. § 1.27 by. ment or Written Assertion attached. ment		
NOTE:	37 C.F.	R. § 1.27(ayment as	c) deals wi a small en	th the assertion of small entity status, whether by a written specific declaration thereof tity of the basic filing fee or the fee for the entry into the national phase as states:		
		"(c) Assertion of small entity status. Any party (person, small business concern or nonprofit organization) should make a determination, pursuant to paragraph (f) of this section, of entitlement to be accorded small entity status based on the definitions set forth in paragraph (a) of this section, and must, in order to establish small entity status for the purpose of paying small entity fees, actually make an assertion of entitlement to small entity status, in the manner set forth in paragraph (c)(1) or (c)(3) of this section, in the application or patent in which such small entity fees are to be paid.				
		(1)	Assertio to small	n by writing. Small entity status may be established by a written assertion of entitlement entity status. A written assertion must:		
			(i)	Be clearly identifiable;		
			(ii)	Be signed (see paragraph (c)(2) of this section); and		
			(iii)	Convey the concept of entitlement to small entity status, such as by stating that		

Parties who can sign and file the written assertion. The written assertion can be signed by: (2)

to comply with the assertion requirement.

One of the parties identified in §§ 1.33(b) (e.g., an attorney or agent registered with the *(i)* Office), §§ 3.73(b) of this chapter notwithstanding, who can also file the written assertion;

applicant is a small entity, or that small entity status is entitled to be asserted for the application or patent. While no specific words or wording are required to assert small entity status, the intent to assert small entity status must be clearly indicated in order

At least one of the individuals identified as an inventor (even though a $\S\S$ 1.63 executed (ii) oath or declaration has not been submitted), notwithstanding §§ 1.33(b)(4), who can also file the written assertion pursuant to the exception under §§ 1.33(b) of this part;

- (iii) An assignee of an undivided part interest, notwithstanding §§ 1.33(b)(3) and 3./73(b) of this chapter, but the partial assignee cannot file the assertion without resort to a party identified under §§ 1.33(b) of this part.
- (3) Assertion by payment of the small entity basic filing or basic national fee. The payment, by any party, of the exact amount of one of the small entity basic filing fees set forth in §§ 1.16(a), (f), (g), (h), or (k), or one of the small entity basic national fees set forth in §§ 1.492(a)(1), (a)(2), (a)(3), (a)(4) or (a)(5), will be treated as a written assertion of entitlement to small entity status even if the type of basic filing or basic national fee is inadvertently selected in error.
 - (i) If the Office accords small entity status based on payment of a small entity basic filing or basic national fee under paragraph (c)(3) of this section that is not applicable to that application, any balance of the small entity fee that is applicable to that application will be due along with the appropriate surcharge set forth in §§ 1.16(e) or §§ 1.16(l).
 - (ii) The payment of any small entity fee other than those set forth in paragraph (c)(3) of this section (whether in the exact fee amount or not) will not be treated as a written assertion of entitlement to small entity status and will not be sufficient to establish small entity status in an application or a patent."
- 3. [X] A copy of the International application as filed (35 U.S.C. 371(c)(2)):

NOTE: Section 1.495 (b) was amended to require that the basic national fee and a copy of the international application must be filed with the Office by 30 months from the priority date to avoid abandonment "The International Bureau normally provides the copy of the international application to the Office in accordance with PCT Article 20. At the same time, the International Bureau notifies applicant of the communication to the Office. In accordance with PCT Rule 47.1, that notice shall be accepted by all designated offices as conclusive evidence that the communication has duly taken place. Thus, if the applicant desires to enter the national stage, the applicant normally need only check to be sure the notice from the International Bureau has been received and then pay the basic national fee by 30 months from the priority date." Notice of Jan. 7, 1993, 1147 O.G. 29 to 40, at 35-36. See item 14c below.

	a. b.	[]	is transmitted herewith. is not required, as the application was filed with the United States Receiving
		rvi	Office. has been transmitted
	c.	[X] i.	[X] by the International Bureau. Date of mailing of the application (from form PCT/IB/308): May 6, 2004.
		ii.	[] by applicant on Date
1.	[X]	A tran 371(c)	uslation of the International application into the English language (35 U.S.C. (2)):
	a.	[]	is transmitted herewith.
	b.	[X]	is not required as the application was filed in English.
	c.	[]	was previously transmitted by applicant on Date
	d.	[]	will follow.

NOTE: 37 C.F.R. § 1.495(c): "If applicant complies with paragraph (b) of this section before expiration of thirty months from the priority date but omits . . . a translation of the international application, as filed, into the English language, if it was originally filed in another language (35 U.S.C. 371(c)(2)) . . . applicant will be so notified and given a period of time within which to file the translation . . . in order to prevent abandonment of the application. The payment of the processing fee set forth in § 1.492(f) is required for acceptance of an English translation later than the expiration of thirty months after the priority date A 'Sequence Listing' need not be translated if the "Sequence Listing' complies with PCT Rule 12.1(d) and the description complies with PCT Rule 5.2(b)."

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5.	[X]	Amendments to the claims of the International application under PC1 Article 19 (33 U.S.C. 371(c)(3)):
NOTE:	practice may not of the PC section errors m	ce of January 7, 1993 points out that 37 C.F.R. § 1.495(a) was amended to clarify the existing and continuing that PCT Article 19 amendments must be submitted by 30 months from the priority date and this deadline be extended. The Notice further advises that: "The failure to do so will not result in loss of the subject matter CT Article 19 amendments. Applicant may submit that subject matter in a preliminary amendment filed under 1.121. In many cases, filing an amendment under section 1.121 is preferable since grammatical or idiomatic tay be corrected." 1147 O.G. 29-40, at 36.
NOTE:	amendn	R. § 1.495(d): "A copy of any amendments to the claims made under PCT Article 19, and a translation of those nents into English, if they were made in another language, must be furnished not later than the expiration of onths from the priority date. Amendments under PCT Article 19 which are not received by the expiration of onths from the priority date will be considered to be canceled."
	a. b.	 [] are transmitted herewith. [] have been transmitted i. [] by the International Bureau. Date of mailing of the amendment (from form PCT/IB/308): ii. [] by applicant on
	c.	 [X] have not been transmitted as [X] applicant chose not to make amendments under PCT Article 19. Date of mailing of Search Report (from form PCT/ISA/210): May 18, 1993. ii. [] the time limit for the submission of amendments has not yet expired. The amendments or a statement that amendments have not been made will be transmitted before the expiration of the time limit under PCT Rule 46.1.
6.	a. b. c. d.	A translation of the amendments to the claims under PCT Article 19 (38 U.S.C. 371(c)(3)): [] is transmitted herewith. [] will follow [] is not required as the amendments were made in the English language. [X] has not been transmitted for reasons indicated at point 5(c) above.
7.	[X]	A copy of the international examination report (PCT/IPEA/409) [X] is transmitted herewith. [] is not required as the application was filed with the United States Receiving Office.
8.	[] a. b.	Annex(es) to the international preliminary examination report [] is/are transmitted herewith. [] is/are not required as the application was filed with the United States Receiving Office.

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9.	[]	A trans	slation of the annexes to the international preliminary examination report				
NOTE:	37 C.F.R. § 1.497(e) "A translation into English of any annexes to an international preliminary examination report (if applicable), if the annexes were made in another language, must be furnished not later than the expiration of thirty months form the priority date. Translations of the annexes which are not received by the expiration of thirty months from the priority date may be submitted within any period set pursuant to paragraph (c) of this section accompanied by the processing fee set forth in § 1.492(f). Annexes for which translations are not timely received will be considered canceled."						
	a. b.	[]	is transmitted herewith. is not required as the annexes are in the English language.				
10.	[X]	U.S.C. 115					
	a.	[]	was previously submitted by applicant on				
	b.	[] i. ii.	is submitted herewith, and such oath or declaration [] is attached to the application. [] identifies the application and any amendments under PCT Article 19 that were transmitted as stated in points 3(b) or 3(c) and 5(b); and states that they were reviewed by the inventor as required by 37 C.F.R. 1.70.				
	c.	[X]	will follow.				
NOTE:	the pr declar applic notifie	ciority date ration of in cation under ed and give	S(c): "If applicant complies with paragraph (b) of this section before expiration of thirty months from the but omits the oath or declaration of the inventor (35 U.S.C. 371(c)(4) and § 1.497), if a niventorship in compliance with § 1.497 has not been previously submitted in the international er PCT Rule 4.17(iv) within the time limits provided for in PCT Rule 26ter.1, applicant will be so an a period of time within which to file the oath or declaration in order to prevent abandonment $n o o$ The payment of the surcharge set forth in § 1.492(e) is required for acceptance of the oath or the inventor later than the expiration of thirty months after the priority date."				
Other	docum	ent(s) or	information included:				
11.	[X]	An Iı 17(2)	nternational Search Report (PCT/ISA/210) or Declaration under PCT Article (a):				
	a.	[X]	is transmitted herewith.				
	b.	[]	has been transmitted by the International Bureau. Date of mailing (from form PCT/IB/308):				
	c.	[]	is not required, as the application was searched by the United States International Searching Authority.				
	đ.	[]	will be transmitted promptly upon request.				
	e.	[]	has been submitted by applicant on Date				
1.2	rv1	An I	information Disclosure Statement under 37 C.F.R. 1.97 and 1.98:				
12.	[X] a.	[X]	is transmitted herewith. Also transmitted herewith is/are:				
		[X] [X]	Form PTO-1449 (PTO/SB/08A and 08B). Copies of citations listed.				
	b.	[]	will be transmitted within THREE MONTHS of the date of submission of requirements under 35 U.S.C. 371(c).				
	c.	[]	was previously submitted by applicant on Date				

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13.	[]	An assignment document is transmitted herewith for recording.				
	A sepa	rate [] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING PATENT APPLICATION" or [] FORM PTO 1595 is also attached.				
14.	[X] a. b.	Additional documents: [X] Copy of request (PCT/RO/101) [X] International Publication No. WO 2004/038122 A1				
	υ.	i. [X] Specification, claims and drawing ii [] Front page only				
	c. d.	[X] Preliminary amendment (37 C.F.R. § 1.121) [X] Other				
		PCT/IPEA/401 (DEMAND)				
15.	[X]	The above checked items are being transmitted '				
13.	a. b.	[X] before 30 months from any claimed priority date. [] after 30 months.				
16.	[]	Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on, namely:				
		AUTHORIZATION TO CHARGE ADDITIONAL FEES				
WAR.	NING:	Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges if extra				
NOTI	₹: <i>"A wi</i>	claims are authorized. ritten request may be submitted in an application that is an authorization to treat any concurrent or future reply,				
requi for ex or al conce Subn any c		A written request may be submitted in an approximate this paragraph for its timely submission, as incorporating a petition quiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition rextension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission of time in the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in the paragraph for its timely submission." on concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." of C.F.R. § 1.136(a)(3).				
NOT	nor v	ounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, ij ested, by credit to a deposit account.'' 37 C.F.R. § 1.26(a).				

	[X]	may be	mmissioner is hereby au required by this paper and the No. 12-0425	thorized to c	JC13 Rec'd PCT/PTO 2.2 APR 20 harge the following additional fees that entire pendency of this application to	105	
		[X]	37 C.F.R. 1.492(a)(1) (basic filing f	ee)		
WARNI	NG:	Because failure to pay the national fee within 30 months without extension (37 C.F.R. \S 1.495(b)(2)) results in abandonment of the application, it would be best to always check the above box.					
		[] [] []	37 C.F.R. 1.492(b) 37 C.F.R. 1.492(b) 37 C.F.R. 1.492(b)	(search fee) (exam fee) (claim fees)			
NOTE:	be paid o	or these clo	-ia cancalled by amondment	prior to the expi 2(d)), it might b	not paid on filing or on later presentation must only ration of the time period set for response by the PTO e best not to authorize the PTO to charge additional final action.		
		[X] [X]	37 C.F.R. 1.17 (applications of C.F.R. 1.17(a)(1)-(5	ation process 5)(extension	ing fees) fees pursuant to § 1.136(a).		
NOTE:	applicat notificat	tion pr tion of ch	ion to naving or at the time of	even if the fee	fentitlement to small entity status must be filed in the e fee." From the wording of 37 C.F.R. § 1.28(b): (a) is paid as "other than a small entity" and (b) no		
		[]	37 C.F.R. § 1.492(e) a filing an English transmonths after the priori	lation of an I	arge fees for filing the declaration and/or nternational Application later than 30		
		[X]	Please credit any over	payments to	deposit account 12-0425.		
					SIGNATURE OF PRACTITIONER		
Reg. No.: 25858					WILLIAM R. EVANS (type or print name of practitioner)		
Tel. No.: (212) 708-1930			930		P.O. Address		
Custo	omer No.	: 00140			c/o Ladas & Parry LLP 26 West 61 st Street New York, N.Y. 10023		
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Practitioner's Docket No. <u>U 015741-7</u>

Optional Customer No. Bar Code $\star 0 0 1 4 0 \star$ On the patent trademark office

CHAPTER II

TRANSMITTAL LETTER TO THE UNITED STATES ELECTED OFFICE (EO/US) (ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

	NATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED			
	AU03/001402	22 OCTOBER 2003	23 OCTOBER 2002			
A BE	OF INVENTION AM					
	CANT(S)					
	CHARLWOOD, Gran	t				
	Stop PCT	Optional Custo	mer No. Bar Code			
	nissioner for Patents					
	Box 1450	*00140*				
Alexa	andria, VA 22313-1450	. 00140				
	ATTENTION: DO/US	000	PICE			
	THE CHOICE BOYES	PATENT TRADEMARK OFFICE				
	WRITTEN ASSE	RTION OF SMALL ENTIT	Y STATUS			
	This is written assertion on t	he basis of:				
	personal knowledge;					
	applicant's letter of	:				
\boxtimes	applicant's agent's letter of Apr	ril 20, 2005 ; or				
	other					
by a p	practitioner (not necessarily of rec	cord) that the above application i	s entitled to small entity status			
and, the	herefore, feès.					
	CERTIFICA (When using Express Expr	TION UNDER 37 C.F.R. 1.8(a) and 1. Mail, the Express Mail label number is ress Mail certification is optional.)	10* mandatory;			
l hereb	y certify that, on the date shown below, t	this correspondence is being:				
		MAILING				
⊠	deposited with the United States Posta 1450, Alexandria, VA 22313-1450.	al Service in an envelope addressed to the	Commissioner for Patents, P. O. Box			
	37 C.F.R. 1.8(a)		/37 C/F.R. 1.10*			
	with sufficient postage as first class m	nail. \boxtimes as "Exp Mailing (mand d	ress Mail Post Office to Address" Label No. <u>EV480459425 US</u>			
		TRANSMISSION / ("Internation				
	transmitted by facsimile to the Patent and Trademark Office to (703) 872,79306					
Date:						
		CONNIE YAN	NOTTI			
			ne of person certifying)			
*WAR	that can be avoided by the exe	oress Mail" must have the number of the F.R. 1.10(b). nce under § 1.10 without the Express Mai rcise of reasonable care, requests for w Oct. 24, 1996, 60 Fed. Reg. 56,439, at 2	il mailing label thereon is an oversight vaiver of this requirement will not be			

Written Assertion of Small Entity Status - page 1 of 2 7-8a

- "To establish small entity status after the payment of the basic filing or national stage fee as a non-small entity, a written assertion of small entity status is required to be submitted." Notice of September 8, 2000, 65 Fed. Reg. NOTE: 54604, at 54609.
- 37 C.F.R. § 1.27(c)(1): "Assertion by writing. Small entity status may be established by a written assertion of entitlement to small entity status. A written assertion must: NOTE:
 - Be clearly identifiable;
 - (ii) Be signed (see paragraph (c)(2) of this section); and
 - Convey the concept of entitlement to small entity status, such as by stating that applicant is a small entity, or that small entity status is entitled to be asserted for the application or patent. While no specific words or wording are required t assert small entity status, the intent to assert small entity status must be clearly indicated in order to comply with the assertion requirement." (iii)
- 37 C.F.R. § 1.27(c)(2): "Parties who can sign and file the written assertion. The written assertion can be signed NOTE:
 - One of the parties identified in § 1.33.(b) (e.g. an attorney or agent registered with the Office). § 3.73(b) (i) of this chapter notwithstanding, who can also file the written assertion;
 - At least one of the individuals identified as an inventor (even though a \S 1.63 executed oath or declaration has not been submitted), notwithstanding \S 1.33(b)(4), who can also file the written assertion pursuant to the exception under \S 1.33(b) of this part; or (ii)
 - An assignee of an undivided part interest, notwithstanding §§ 1.33(b(3)) and 3.73(b) of this chapter, but the partial assignee cannot file the assertion without resort to a party identified under § 1.33(b) of this (iii)

- 35 C.F.R. § 1.33(b):

 (b) Amendment and other papers. Amendments and other papers, except for written assertions

 (c) Amendment and other papers. Amendments and other papers, except for written assertions pursuant to § 1.27(c)(2)(ii) of this part, filed in the application must be signed by:
 - (1) A registered attorney or agent of record appointed in compliance with § 1.34(b);
 - A registered attorney or agent not of record who acts in a representative capacity under the provisions of § 1.34(a);
 - (3) An assignee as provided for under § 3.71(b) of this chapter; or
 - (4) All of the applicants (§ 1.41(b)) for patent, unless there is an assignee of the entire interest and such assignee has taken action in the application in accordance with § 3.71 of this chapter.

Respectfully submitted.

WILLIAM R. EVANS c/o Ladas & Parry LLP 26 West 61st Street New York, N. Y. 10023

REG. NO.: 25858 (212) 708-1930